# FRIEDMAN & BRUYA, INC.

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 08/11/03 Date Received: 07/10/03

Project: Metro Self Monitor, PO# M20232, F&BI 307086

Date Extracted: 08/06/03 Date Analyzed: 08/06/03

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	<u>Chromiur</u>	<u>n</u> <u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M20232 307086-01	0.18	0.20	0.20	0.07
Method Blank	< 0.05	< 0.05	< 0.1	< 0.05

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## QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 308002-01 (Duplicate)

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	Reporting	Sample	Duplicat	te Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	< 0.05	< 0.05	nm	0-20
Copper	mg/L (ppm)	2.3	2,3	0	0-20
Nickel	mg/L (ppm)	<0.1	<0.1	nm	0-20
Zinc	mg/L (ppm)	0.79	0.76	4	0-20

Laboratory Code: 308002-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	< 0.05	100	80-120
Copper	mg/L (ppm)	2	2.3	87	80-120
Nickel	mg/L (ppm)	4	<0.1	99	80-120
Zinc	mg/L (ppm)	2	0.79	94	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Re	covery A	cceptance	RPD	AM)
Analyte	Units	Level	LCS	L(	CSD	Criteria	(Limit 20)	)
Chromium	mg/L (ppm)	2	107	1	05	80-120	2	
Copper	mg/L (ppm)	2	105	1	05	80-120	0	
Nickel	mg/L (ppm)	4	104	1	05	80-120	1	
Zinc	mg/L (ppm)	2	104	<b>1</b>	06	80-120	2	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

## FRIEDMAN & BRUYA, INC.

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

August 11, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 10, 2003 from the Metro Self Monitor, PO# M20232, F&BI 307086 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU0811R.DOC SAMPLE CHAIN OF CUSTODY

SAMPLE (signature)

ME 7/10/03 AIZ

Send Report To G, Thompson				Della								TURNAROUND TIME						
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Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	A Ch 450			•			Notes
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